

SUPPLEMENTARY QUALITY ASSURANCE PROVISIONS

1. Introduction: The following define supplementary quality assurance provisions to this contract and become an integral part thereof. These provisions define additional requirements of the contractor in the performance of Quality Assurance duties. In the event of any conflicting requirements these provisions shall have precedence.

2. General Provisions:

a. The supplier shall establish, as is required by the contract, a quality system in accordance with ANSI/ASQC Q9001, ANSI/ASQC Q9002 or equivalent as determined by Crane Division, Naval Surface Warfare Center (NAVSURFWARCEMDIV Crane) (Code 402). The required system shall be designed to assure that the end product meets the requirements of the ADLs, drawings, specifications and contract. The quality system plan shall be submitted to NAVSURFWARCEMDIV Crane (Code 402) for review and approval prior to the beginning of production.

b. Acceptability of a lot or batch of material will be determined by the use of sampling plans contained herein, statistical process control and/or 100 percent inspection as specified in the supplier's Government approved quality or inspection plans. Final acceptance by Government inspection and/or testing may be required by the item specification, ADL or drawing.

c. The assignment of a sampling plan in no way alleviates the responsibility of the supplier to furnish a product meeting all requirements of the documentation. Material not meeting all the requirements of the applicable drawings and specifications shall be considered defective whether or not the characteristic is classified. The supplier may not knowingly submit any non-conforming product to the customer for product acceptance.

d. Inspection and test records shall, as a minimum, indicate the nature of the observations, number of observations made, and the number and type of deficiencies found. Data included in inspection and test records shall be complete and accurate, and shall be used for trend analysis and to assess corrective action effectiveness.

e. The supplier's gages, and measuring and testing devices shall be made available for use by the purchaser when required to determine conformance with contract requirements. If conditions warrant, the supplier's personnel shall be made available for

operations of such devices and for verification of accuracy and condition.

f. The supplier's software quality program shall be an integral part of the overall Quality Assurance Program. Software quality program controls shall be applicable to all project software that is developed, maintained, or modified within the following categories:

(1) All deliverable software

(2) All deliverable software that is included as part of deliverable hardware or firmware.

(3) Non-deliverable software (commercially available or user-developed) used for development, fabrication, testing, or acceptance of deliverable software or hardware (includes automated fabrication, test, and inspection/acceptance equipment software and software design, test, and inspection tools).

(4) Commercially available, reusable, or purchaser software designated as part of a deliverable item.

g. Government Property

(1) Government-Furnished Material

When material is furnished by the Government, the contractor's procedures shall include at least the following:

(a) Examination upon receipt, consistent with practicability to detect damage in transit.

(b) Inspection for completeness and proper type.

(c) Periodic inspection and precautions to assure adequate storage conditions and to guard against damage from handling and deterioration during storage.

(d) Functional testing, either prior to or after installation, or both, as required by contract to determine satisfactory operation.

(e) Identification and protection from improper use or disposition.

(f) Verification of quantity.

(2) Damaged Government-Furnished Material

The supplier shall report to the Government

Representative any Government-furnished material found damaged, malfunctioning, or otherwise unsuitable for use. In the event of damage or malfunctioning during or after installation, the contractor shall determine and record probable cause and necessity for withholding material from use.

(3) Bailed Property

The supplier shall, as required by the terms of the Bailment Agreement, establish procedures for the adequate storage, maintenance and inspection of bailed Government property. Records of all inspections and maintenance performed on bailed property shall be maintained. These procedures and records shall be subject to review by the Government Representative.

h. Acceptable Quality Levels (AQLs) as specified (in conjunction with MIL-STD-105) in ADLs, drawings and specifications shall not be used by the supplier to conduct (nondestructive) acceptance inspection. Criteria established by Attachment (1) shall be used by the supplier to conduct (nondestructive) acceptance inspection. (Where AQLs are listed, the AQLs are informational only (minimum historical quality levels.)) Use of other (nondestructive) Acceptance Inspection Plans requires prior Government approval.

i. Critical characteristics that are to be verified by nondestructive testing or inspection shall be inspected 100 percent regardless of any provisions or allowance to the contrary as may be contained, included or cited in the ADLs, drawings or specifications. Reduced levels for nondestructive testing or inspection of critical characteristics are not allowed.

j. Statistical Process Control (SPC) shall be used by the supplier to assure product conformance to ADLs, drawings, specifications and contract requirements. The SPC system is subject to review and approval by NAVSURFWARCENDIV Crane (Code 402).

k. Material review board waiver, deviation and Engineering Change Proposal (ECP) approval authority is specifically withheld from the Administrative Contracting Officer (ACO) for commercial procurements and from Government Owned-Government Operated (GOGO) and Government Owned-Contractor Operated (GOCO) activities unless written authority is received from the NAVSURFWARCENDIV Crane (Code 402).

3. Applicable Definitions: Quality Assurance terms applied to the material to be delivered under this contract, unless otherwise specified, are defined in ANSI/ISO/ASQC A8402. However, definitions set forth in Automated Data Lists (ADLs), drawings,

specifications of the contract shall take precedence over the definitions contained in ANSI/ISO/ASQC A8402, or in the provisions, to the extent of the conflict. The Procurement Contracting Officer (PCO) shall be advised of any such uncovered conflict.

a. Classification of Characteristics: A specific attribute, measurement or functional feature identified in the ADLs, drawings or specifications as a requirement and classified in accordance with the effect of conformance or nonconformance with the requirement as "critical", "major" or "minor".

b. Inspection by Characteristics: The application of acceptance/rejection criteria to each individual characteristic of an ADL, drawing or specification, or to individually specified characteristics.

c. Inspection by Class: The application of acceptance/rejection criteria to all characteristics of the same class (e.g., "critical", "major" or "minor") on an ADL, drawing or specification, or to a group of characteristics of the same class (but not necessarily all) on an ADL, drawing or specification.

d. Acceptance Inspection: Specified operations that must be performed by the supplier to assure that the lot of items (or item) conforms to the requirements of ADLs, drawings and specifications. These operations (examinations, measurements and tests) shall be conducted prior to the submission of the item (or lot of items) to the cognizant Government representative for acceptance by the Government.

e. Product Verification Inspection: Specified operations to be performed by the cognizant Government representative after, or during, acceptance inspection by the supplier, to assure conformance of the product to the requirements of the ADLs, drawings and specifications. These inspection operations will be accomplished by either witnessing the acceptance operations of the contractor or by actual inspection of samples for specified characteristics.

f. Cognizant Government Representative: The designated Government representative specified in the contract.

g. Customer: Refer to the term APurchaser≡

h. Purchaser: In addition to the definitions of purchaser and customer found in the respective ANSI/ISO/ASQC standards, when used in the Quality Systems definitions of U.S. Government contracts, the term Purchaser shall refer to the body of the Government Agency administering the particular contract involved, or the authorized representative of that Government body.

i. Supplier: The organization that provides a product or a service to the customer. When used in the Quality Systems definitions of U.S. Government contracts, the term supplier shall denote the contractor.

j. Testing: That element of inspection by technical means that determines the properties or elements, including functional operation of elements and supplies or their components, by the application of established scientific principles and procedures.

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1. The contractor shall not use MIL-STD-105 or Acceptable Quality Levels (AQLs) referenced therein for (nondestructive) acceptance inspection. Table 1 shall be used by the contractor for (nondestructive) acceptance inspection. Inspection shall be by characteristic. Acceptance criteria shall be accept on zero defects and reject on one or more defects for all inspection levels. Numbers under inspection levels indicate sample size. Asterisk indicates one hundred percent inspection. If sample size exceeds lot size, perform one hundred percent inspection. Inspection level is determined below:

| <u>Referenced AQL</u> | <u>Inspection Level</u> |
|-----------------------|-------------------------|
| .04 | I |
| .065 | II |
| .10 | III |
| .15 | IV |
| .25 | V |
| .40 | VI |
| .65 | VII |
| 1.0 | VIII |
| 1.5 | IX |
| 2.5 | X |
| 4.0 | XI |
| 6.5 | XII |

2. Unless specified otherwise on Automated Data Lists (ADLs), drawings or specifications inspection Level VIII shall be used for major characteristics, and inspection Level X for minor characteristics, i.e., if no AQL is referenced for a major or minor characteristic inspection Levels VIII and X respectively apply. Characteristics not defined as critical or major are defined as minor.

| LOT SIZE | INSPECTION LEVEL | | | | | | | | | | | |
|-----------------|------------------|-----|-----|-----|-----|-----|-----|------|----|----|----|-----|
| | I | II | III | IV | V | VI | VII | VIII | IX | X | XI | XII |
| 2 - 8 | * | * | * | * | * | * | * | * | * | 5 | 3 | 2 |
| 9 - 15 | * | * | * | * | * | * | * | 13 | 8 | 5 | 3 | 2 |
| 16 - 25 | * | * | * | * | * | * | 20 | 13 | 8 | 5 | 3 | 2 |
| 26 - 50 | * | * | * | * | * | 32 | 20 | 13 | 8 | 5 | 4 | 3 |
| 51 - 90 | * | * | * | 80 | 50 | 32 | 20 | 13 | 13 | 13 | 8 | 6 |
| 91 - 150 | * | * | 125 | 80 | 50 | 32 | 20 | 13 | 13 | 13 | 10 | 8 |
| 151 - 280 | * | 200 | 125 | 80 | 50 | 32 | 32 | 32 | 20 | 15 | 13 | 9 |
| 281 - 500 | 315 | 200 | 125 | 80 | 50 | 50 | 49 | 32 | 24 | 19 | 14 | 11 |
| 501 - 1,200 | 315 | 200 | 125 | 80 | 80 | 74 | 49 | 39 | 31 | 23 | 18 | 14 |
| 201 - 3,200 | 315 | 200 | 125 | 125 | 123 | 74 | 59 | 49 | 36 | 28 | 22 | 17 |
| 301 - 10,000 | 315 | 200 | 200 | 148 | 123 | 95 | 74 | 56 | 45 | 35 | 27 | 19 |
| 5001 - 35,000 | 315 | 200 | 200 | 148 | 142 | 119 | 99 | 72 | 56 | 43 | 31 | 19 |
| 101 - 150,000 | 315 | 315 | 299 | 229 | 175 | 142 | 99 | 87 | 69 | 49 | 31 | 19 |
| 5001 - 500,000 | 500 | 498 | 299 | 298 | 213 | 149 | 135 | 110 | 74 | 49 | 31 | 19 |
| 501 and above | 500 | 498 | 299 | 299 | 299 | 213 | 165 | 124 | 74 | 49 | 31 | 19 |
| test entire lot | | | | | | | | | | | | |